

(For JSPS Fellow)

Form B-5

Date (日付) 02/02/2015

(Date/Month/Year: 日/月/年)

Activity Report -Science Dialogue Program-
(サイエンス・ダイアログ事業 実施報告書)

- Fellow's name (講師氏名): Frath Denis (ID No. P14341)
- Participating school (学校名): Koyo High School
- Date (実施日時): 29/01/2015
- Lecture title (講演題目): From France to Japan: a journey through chemistry
- Lecture summary (講演概要):

After a short comparison between France and Japan, I presented the French education system through my own experience. I also introduced some of my personal interests and some reasons why I became researcher in chemistry and why I decided to come to Japan. Then I have presented the context of my work and some results I obtained in France and in Japan. The presentation was focused on organic molecules that can interact with light. During my PhD in France, I worked on the synthesis of new fluorophores. That is to say molecules that can emit light by the phenomenon of fluorescence. Fluorescence is the property for a material to spontaneously emit light after absorption of energy. I also studied different applications for these molecules. Here in Japan, I am studying photochromic systems. Photochromism is the ability for a molecule to change its color and properties when shining light on it. Currently I am using Scanning Tunneling Microscopy (STM) to study the deposition and the behavior of photochromic molecules on surfaces. The data collected during my JSPS post-doctoral fellowship could be useful to control the properties of new materials with light.

- Language used (使用言語): English
- Lecture format (講演形式):
 - ◆Lecture time (講演時間) 55 min, Q&A time (質疑応答時間) 10 min
 - ◆Lecture style(ex.: used projector, conducted experiments)
(講演方法 (例: プロジェクター使用による講演、実験・実習の有無など))
used projector and presented concepts by simple experiments
 - ◆Interpretation(ex.: assistance by accompanied person, provided Japanese explanation by yourself) (通訳 (例: 同行者によるサポート、講師本人による日本語説明))
assistance by accompanied person

◆Name and title of accompanied person (同行者 職・氏名)

Mr Uchida Yosuke (M1 student)

◆Other note worthy information (その他特筆すべき事項):

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- Impressions and opinions from accompanied person (同行者の方から、本事業に対する意見・感想等がありましたら、お願いいたします。):

In order to discuss more actively, I think smaller number of students can attend the lecture. To assist in the lecture was good opportunity for me because I think it's rare not only to have a day without Japanese but to support an English lecture. I was able to realize how difficult it is to support this kind of lecture but I had a good time. Of course this activity is important for high school students, but I think it is also important for graduate school student and I would like more Japanese graduate school students to support this kind of lecture.